

Appl. No. 10/665,995
Amdt. Dated June 10, 2005
Reply to Office Action of March 10, 2005

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A backlight system, comprising:

a light guide plate;

at least a light source disposed at at least one side of the light guide plate;

a diffusion plate; and

a reflection polarizer, which ~~lets~~ allows light polarized in one certain direction to pass, and reflects light polarized in a ~~polarization~~ direction perpendicular to ~~the~~ said one certain direction;

wherein the light guide plate, the diffusion plate and the reflection polarizer are stacked up one on top of the other, and a plurality of prisms are disposed on a surface of the diffusion plate, ~~which forms~~ thereby defining a plurality of V-shaped grooves.

Claim 2 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein the plurality of prisms are disposed parallel to one another.

Appl. No. 10/665,995

Amdt. Dated June 10, 2005

Reply to Office Action of March 10, 2005

Claim 3 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 2, wherein the parallel prisms are spaced apart at equal intervals.

Claim 4 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein the prisms are each in a shape of a pyramid and are distributed evenly.

Claim 5 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein a reflection plate is disposed under the light guide plate.

Claim 6 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein a reflection film is formed on the light guide plate.

Claim 7 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, further comprising a light source cover which surrounds the light source on three sides.

Claim 8 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein the light guide plate is a flat plate.

Claim 9 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein the light guide plate is in a shape of a wedge.

Claim 10 (currently amended): The backlight system as claimed in ~~elaimed~~ claim 1, wherein a brightness enhancement film is disposed between the diffusion plate and the reflection polarizer.

Appl. No. 10/665,995
Amdt. Dated June 10, 2005
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Claim 11 (currently amended): A backlight system, comprising:

a light guide plate;

at least a light source disposed at at least one side of the light guide plate;

a diffusion plate located above said light guide plate; and

a reflection polarizer[[,]] which allows S polarized ~~lights~~ light to pass[[,]] while ~~reflects~~ reflecting P polarized ~~lights~~; light, the reflection polarizer being located above ~~said~~ the diffusion plate; wherein

the light guide plate, the diffusion plate and the reflection polarizer are stacked one on another in sequence, and light conversion elements are disposed on a surface of the diffusion plate and ~~facing~~ face toward the reflection polarizer to transform the reflected P polarized light thereabouts to a common light and successively redirect said ~~commonly~~ common light toward the reflection polarizer without substantial involvement of the diffusion plate and the light guide plate.

Claim 12 (currently amended): A method of making a backlight system, comprising steps of:

providing a light guide plate;

positioning a light source beside said light guide plate;

positioning a diffusion plate above said light guide plate;

Appl. No. 10/665,995

Amdt. Dated June 10, 2005

Reply to Office Action of March 10, 2005

positioning a reflection polarizer above said diffusion plate which allows S polarized ~~lights~~ light to pass and reflects P polarized ~~lights~~ light; and forming a plurality of light conversion elements on the diffusion plate facing toward the reflection polarizer, so as to transform the reflected P polarized light to a common light thereabouts and successively redirect said common light toward said the reflection polarizer without substantial involvement of ~~at least the~~ said light guide plate.